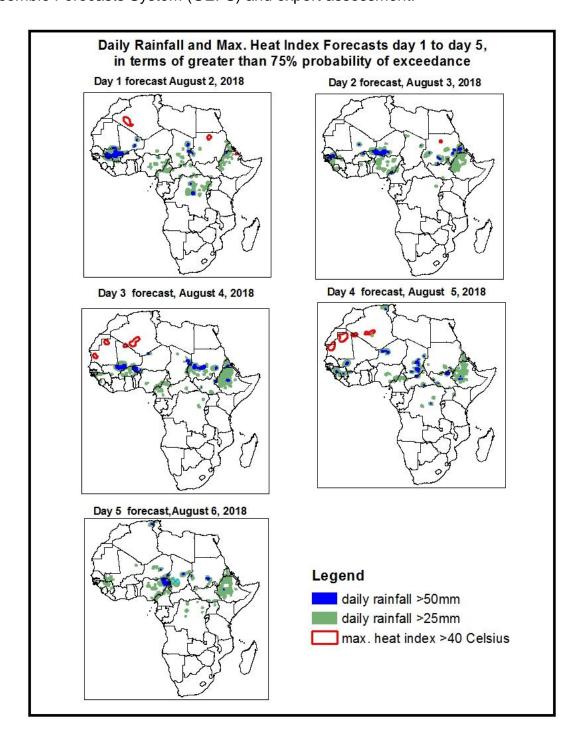
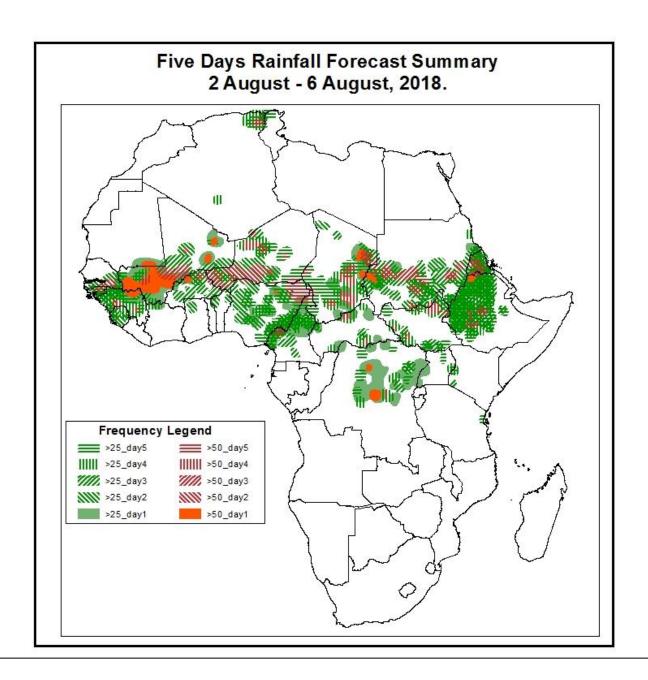
# 1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on August 1, 2018)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: August 2, – August 6, 2018)

The forecasts are expressed in terms of high probability of precipitation (POP) and high probability of maximum heat index, based on the NCEP/GFS and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.

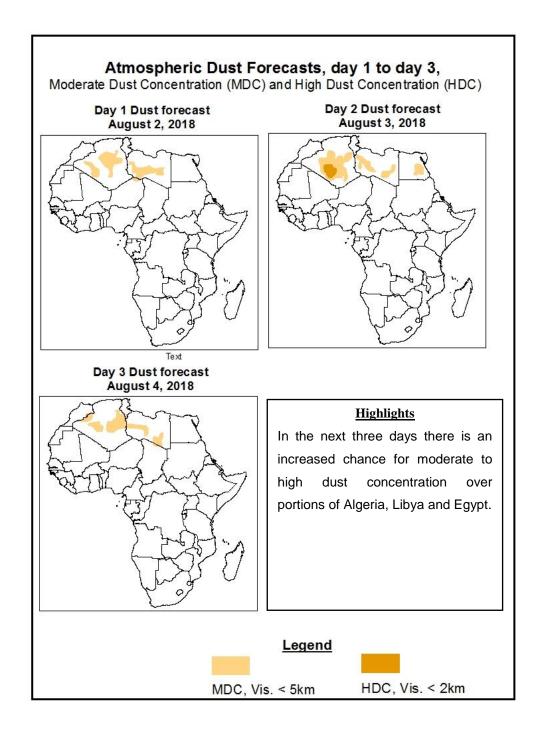




# **Highlights**

In the next five days, areas of anomalous lower-level convergence and upper level divergence over parts of East Africa, Central Africa and Gulf of Guinea Countries are expected to enhance rainfall, while areas of anomalous lower-level divergence and upper-level convergence is expected to suppress rainfall during the forecast period. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Algeria, Mali, Senegal, Gambia, Guinea Bissau, Guinea, Sierra Leone, Burkina Faso, Niger, Nigeria, Cameroon, Chad, CAR, DRC, Uganda, Sudan, South Sudan, Eritrea and Ethiopia.

# **1.2.** Atmospheric Dust Concentration Forecasts (valid: August 2 – August 4, 2018) The forecasts are expressed in terms of high probability of dust concentration, based on the Navy Aerosol Analysis and Prediction System, NCEP/GFS lower-level wind forecasts and expert assessment.



#### **1.3. Model Discussion,** Valid: August 2 – August 6, 2018

The Azores High Pressure system over the North Atlantic Ocean is expected to weaken in the first two days and then intensify during the forecast period. The central pressure value decreased from 1024hPa to 1020hPa and increased to 1027hPa in the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to weaken in the first three days and then intensify during forecast period. The central pressure values decreased from 1033hPa to 1031hPa and intensify to 1043hPa in the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken during the forecast period. The central pressure value decreased from 1031hPa to 1026hPa in the forecast period.

At 925hPa, dry strong northeasterly to easterly wind is expected to prevail across northern Africa and portions of the Sahel region.

At 850hPa, in West Africa, it is expected that the Inter Tropical Convergence Zone will oscillate above the Gulf of Guinea countries while the area of wind convergence remain active over Mauritania, Mali, Niger and Sudan.

In the next five days, areas of anomalous lower-level convergence and upper level divergence over parts of East Africa, Central Africa and Gulf of Guinea Countries are expected to enhance rainfall, while areas of anomalous lower-level divergence and upper-level convergence is expected to suppress rainfall during the forecast period. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Algeria, Mali, Senegal, Gambia, Guinea Bissau, Guinea, Sierra Leone, Burkina Faso, Niger, Nigeria, Cameroon, Chad, CAR, DRC, Uganda, Sudan, South Sudan, Eritrea and Ethiopia.

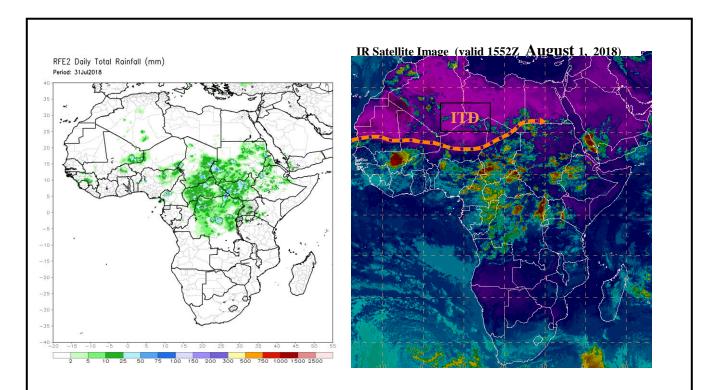
# 2.0. Previous and Current Day Weather over Africa

### **2.1. Weather assessment for the previous day** (July 31, 2018)

Moderate to locally heavy rainfall was observed over parts of Guinea, Mali, Niger, Nigeria, Chad, CAR, DRC, Uganda, Sudan, Eritrea and Ethiopia.

# **2.2.** Weather assessment for the current day (August 1, 2018)

Intense convective clouds are observed over parts of Mali, Nigeria, Chad, CAR, DRC, Kenya, Sudan, South Sudan and Ethiopia.



Previous day rainfall condition over Africa (Left) based on the NCEP CPCE/RFE and current day cloud cover and ITD (right) based on IR Satellite image and 925hPa wind.

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